

PAGE: 1

RAW SEQUENCE LISTING

PATENT APPLICATION US/08/955,572A

DATE: 11/05/1998

TIME: 16:17:59

Input Set: H955572A.RAW

This Raw Listing contains the General Information Section and up to first 5 pages.

new format

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 2
 3
           METHODS
                                                                     su p3
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 5
     <141> CURRENT FILING DATE: 1998-10-22
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                                                                                   360
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                                                                                   480
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                                                                                   660
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41
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44
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1646

PAGE: 2 RAW SEQUENCE LISTING DATE: 11/05/1998
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Input Set: H955572A.RAW

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46		65					70					75		_			80		
47		Thr	Ser	Asn	Ala		Cys	Asp	Cys	Thr		Gly	Phe	His	Cys	Leu	Gly		
48					_	85					90					95			
49		Ala	Gly	Cys		Met	Cys	Glu	Gln	_	Cys	Lys	Gln	Gly		Glu	Leu		
50			_	_	100		_	_	_	105					110	_			
51		Thr	Lys		GIY	Cys	Lys	Asp		Cys	Phe	GTA	Thr		Asn	Asp	GIn		
52		_	_	115	_,	_	_	_	120	-1	-	~	a	125		~1	_		
53		Lys	_	GIY	IIe	Cys	Arg		Trp	Thr	Asn	Cys		Leu	Asp	Gly	Lys		
54		_	130	_		_	~-1	135	_	~ 3		.	140		_	~1	_		
55			Val	Leu	Val	Asn	_	Thr	Lys	GIu	Arg	_	Val	Val	Cys	Gly			
56		145	_	_ ,	_	_	150	_			_	155		_,	_	_	160		
57		Ser	Pro	Ala	Asp		Ser	Pro	GIY	Ala		ser	Val	Thr	Pro	Pro	Ala		
58				_	~1	165	~7	'	.		170	-1.	-1-	a	-1.	175	_		
59		Pro	Ala	Arg		Pro	GIY	His	Ser		GIn	шe	IIe	ser		Phe	Leu		
60					180					185	-	.	51	53	190		_		
61		Ата	Leu		ser	Thr	Ата	ьeu		Pne	Leu	Leu	Pne		ьeu	Thr	ьeu		
62		-	51	195	7	7			200	-				205		-1.	-1		
63		Arg		ser	vaı	vai	ьуs	_	GIĀ	Arg	ьуs	гàг		Leu	Tyr	Ile	Pne		
64			210		51.			215	7	~ 3		— 1	220	~ 1	~ 1		~ 1		
65		_	Gin	Pro	Phe	Met	_	Pro	Val	GIn	Thr		GIn	GIU	GIU	Asp	_		
66		225		~		-1	230	~1	~ 1	~ 1	~1	235	~1	~	~ 1		240		
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75 76	<210>																		
76	<211><212>																		
77 70						anic													
78 79	<213><400>				JIIIO S	sapre	:IIS												
80	<400>				+~~+	- ~ ~ ~ .													20
81	-210-	-				ggad	a												20
82	<210><211>																		
83	<211>																		
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86	(400)				aats	ttro	د.												20
87	<210>				iggt	/	a												20
88	<211>																		
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90	<213>				mo s	anie	ne												
91	<400>				,O E	apre	.113												
92	/400>				rest	gtto													20
93	<210>	_	-		. Laal	.gc													20
94	<211>																		
73	~~117	١٠٠١٧٥		20															

. ب PAGE: 3 RAW SEQUENCE LISTING DATE: 11/05/1998

PATENT APPLICATION US/08/955,572A TIME: 16:17:59

Input Set: H955572A.RAW

						Input	Set: H955	572A.RAW
0.5	.010	michel para						
95 06		TYPE: DNA	Uomo conion	-				
96			Homo sapien:	5				
97	<400>	SEQUENCE:		.				0.5
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119			tggacgaact					600
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121			gagggaggac					720
122			gctttgctgc				=	
123			aaaaaattcc					840
124			gaagatgctt					900
125			ctgtgatgta					
126			atcctgtgga					1020
127			gtgtgggcgc	_	_	_	_	1080
128 129 /	nel		ttaaatcttt		_			1140
	-,		acgtgtgtgt					1200
130	stim		ttggttccat					1260
1 4 1			agacctgtct					1320
132	10 m		tgtagagatt					1380
133 134	SNUV		tatactgtat					1440
134	1		caacctagag					1500
	Lynny		acacacac		_	_		1560
136	Heir	-	gggatagggt					1620
137 /	7		ccttctgggt					1680
138			cgtcaagttc					1740
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140			gccggaaggt					1860
141			cgagaatcga					1920
142			tttcgtccgg					1980
143			ataaaacaac					2040
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Input Set: H955572A.RAW

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Casacgtttc gactttgatt cttgccggta cgtggtggtg ggtgccttag ctcttctctg 2340 2350 2410 2410 2350 2210 250 10 No 10 2350 2211 2410 2411	146		_			_					-				_	-		-	
149	147		agg	gtac	tgg g	gegge	cccg	cc ga	aagg	cccti	t tg	gttt	caga	aac	ccaa	ggc	cccc	ctcata	2280
150	148		ccaa	acgt	ttc 9	gactt	tgai	tt c	ttgc	cggta	a cg	tggt	ggtg	ggt	gcct	tag	ctct	ttctcg	
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159			Gly	Cys	Glu	_	Val	Gly	Ala	Val		Asn	Ser	Cys	Asp		Cys	Gln	
160 35				_									_						
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162						_			_		_						_		
163			Pro		Thr	Phe	Ser	Ser		GLY	GIA	GIn	Pro		Cys	Asn	Ile	Cys	
164 65 70 70 75 80 165 His Asn Ala Glu Cys Glu Cys Glu Gly Phe His Cys Leu Gly Pro 166 85 90 95 167 Gln Cys Thr Arg Cys Glu Lys Asp Cys Arg Pro Gly Gln Glu Leu Thr 168 100 105 110 169 Lys Gln Gly Cys Lys Thr Cys Ser Leu Gly Thr Phe Asn Asp Gln Asn 170 115 120 125 171 Gly Thr Gly Val Cys Arg Pro Trp Thr Asn Cys Ser Leu Asp Gly Arg 172 130 135 140 173 Ser Val Leu Lys Thr Gly Thr Thr Glu Lys Asp Val Val Cys Gly Pro 174 145 150 155 160 175 Pro Val Val Ser Phe Ser Pro Ser Thr Thr Ile Ser Val Thr Pro Glu 176 165 177 170 Gly Gly Pro Gly Gly His Ser Leu Gln Val Leu Thr Leu Phe Leu Ala 178 180 185 190 179 Leu Thr Ser Ala Leu Leu Leu Ala Leu Ile Phe Ile Thr Leu Phe 180 200 205 181 Ser Val Leu Lys Thr Thr Gly Ala Ala Gln Glu Glu Asp Ala Cys Ser 184 225 230 235 240 185 Cys Arg Cys Pro Gln Glu Glu Glu Glu Gly Gly Gly Gly Tyr Glu Leu			_		_			_		_		_	_		_	_	_		
165			_	Val	Cys	Ala	GLY	_	Pne	Arg	Phe	Lys	_	Pne	Cys	Ser	Ser		
166 167 168 169 169 169 170 180 180 180 180 180 180 180						~ 1	~		~		~ 7	~1.			~		~ 7		
167 Gln Cys Thr Arg Cys Glu Lys Asp Cys Arg Pro Gly Gln Glu Leu Thr 168			HIS	Asn	Ата	GIu	•	GIU	Cys	ше	GIU	-	Pne	Hls	Cys	Leu	-	Pro	
168 100 105 110 169 Lys Gln Gly Cys Lys Thr Cys Ser Leu Gly Thr Phe Asn Asp Gln Asn 170 115 120 125 171 Gly Thr Gly Val Cys Arg Pro Trp Thr Asn Cys Ser Leu Asp Gly Arg 125 172 130 135 140 173 Ser Val Leu Lys Thr Gly Thr Thr Glu Lys Asp Val Val Cys Gly Pro 160 174 145 150 155 160 175 Pro Val Val Ser Phe Ser Pro Ser Thr Thr Ile Ser Val Thr Pro Glu 175 176 165 170 175 177 Gly Gly Pro Gly Gly His Ser Leu Gln Val Leu Thr Leu Phe Leu Ala 185 190 179 Leu Thr Ser Ala Leu Leu Leu Leu Ala Leu Ile Phe Ile Thr Leu Leu Phe 180 185 190 180 195 200 205 205 181 Ser Val Leu Lys Trp Ile Arg Lys Lys Phe Pro His Ile Phe Lys Gln 180 210 215 220 183 Pro Phe Lys Lys Thr Thr Gly Ala Ala Gln Glu Glu Glu Asp Ala Cys Ser 240 184 225 230 235 240 185 Cys Arg Cys Pro Gln Glu Glu Glu Glu Glu Gly Gly Gly Gly Gly Gly Gly Gly Tyr Glu Leu			~1 ~	~	mla sa	7		a1	T	7	G		D	a 1	a 1	~1		mla sa	
169 Lys Gln Gly Cys Lys Thr Cys Ser Leu Gly Thr Phe Asn Asp Gln Asn 170 115 120 125 171 Gly Thr Gly Val Cys Arg Pro Trp Thr Asn Cys Ser Leu Asp Gly Arg 172 130 135 140 173 Ser Val Leu Lys Thr Gly Thr Thr Glu Lys Asp Val Val Cys Gly Pro 160 174 145 150 155 160 175 Pro Val Val Ser Phe Ser Pro Ser Thr Thr Ile Ser Val Thr Pro Glu 175 177 Gly Gly Pro Gly Gly His Ser Leu Gln Val Leu Thr Leu Phe Leu Ala 180 185 190 179 Leu Thr Ser Ala Leu Leu Leu Leu Ala Leu Ile Phe Ile Thr Leu Leu Phe 180 200 205 181 Ser Val Leu Lys Trp Ile Arg Lys Lys Phe Pro His Ile Phe Lys Gln 220 220 183 Pro Phe Lys Lys Thr Thr Gly Ala Ala Gln Glu Glu Glu Asp Ala Cys Ser 240 184 225 230 235 240 185 Cys Arg Cys Pro Gln Glu Glu Glu Glu Glu Gly Gly Gly Gly Gly Gly Tyr Glu Leu			GII	Cys	THY	_	Cys	GIU	гуѕ	Asp	_	Arg	Pro	GTA	GIII			Thr	
170 171 172 173 174 175 176 177 178 179 179 170 179 170 170 170 170			T	~1 ~	~1		T	mb.~	C	Com		~1		Dha	7 am			7 ~~	
171 Gly Thr Gly Val Cys Arg Pro Trp Thr Asn Cys Ser Leu Asp Gly Arg 172 130 135 140 173 Ser Val Leu Lys Thr Gly Thr Thr Glu Lys Asp Val Val Cys Gly Pro 174 145 150 150 155 160 175 Pro Val Val Ser Phe Ser Pro Ser Thr Thr Ile Ser Val Thr Pro Glu 176 165 170 170 177 Gly Gly Pro Gly Gly His Ser Leu Gln Val Leu Thr Leu Phe Leu Ala 178 180 185 190 179 Leu Thr Ser Ala Leu Leu Leu Ala Leu Ile Phe Ile Thr Leu Phe 180 200 205 181 Ser Val Leu Lys Trp Ile Arg Lys Lys Phe Pro His Ile Phe Lys Gln 182 210 215 220 183 Pro Phe Lys Lys Thr Thr Gly Ala Ala Gln Glu Glu Asp Ala Cys Ser 184 225 230 235 240 185 Cys Arg Cys Pro Gln Glu Glu Glu Gly Gly Gly Gly Gly Tyr Glu Leu			гуѕ	GIII	-	Cys	пув	1111	Cys		Leu	СТА	1111	Pne		ASD	GIII	ASII	
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174			Ser		T.e.11	Lve	Thr	Glv		Thr	Glu	Tare	Δsn		Va 1	Cve	Glv	Pro	
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176 Gly Gly Pro Gly Gly His Ser Leu Gln Val Leu Thr Leu Phe Leu Ala 178 180 185 190 179 Leu Thr Ser Ala Leu Leu Leu Ala Leu Ile Phe Ile Thr Leu Phe 180 195 200 205 181 Ser Val Leu Lys Trp Ile Arg Lys Lys Phe Pro His Ile Phe Lys Gln 182 215 220 183 Pro Phe Lys Lys Thr Thr Gly Ala Ala Gln Glu Glu Asp Ala Cys Ser 184 225 230 235 240 185 Cys Arg Cys Pro Gln Glu Glu Glu Gly Gly Gly Gly Gly Tyr Glu Leu				Val	Val	Ser	Phe		Pro	Ser	Thr	Thr		Ser	Val	Thr	Pro		
177 Gly Gly Pro Gly Gly His Ser Leu Gln Val Leu Thr Leu Phe Leu Ala 178 180 185 190 179 Leu Thr Ser Ala Leu Leu Leu Ala Leu Ile Phe Ile Thr Leu Leu Phe 180 195 200 205 181 Ser Val Leu Lys Trp Ile Arg Lys Lys Phe Pro His Ile Phe Lys Gln 182 210 215 220 183 Pro Phe Lys Lys Thr Thr Gly Ala Ala Gln Glu Glu Asp Ala Cys Ser 184 225 230 235 240 185 Cys Arg Cys Pro Gln Glu Glu Glu Gly Gly Gly Gly Gly Tyr Glu Leu																			
178 Leu Thr Ser Ala Leu Leu Ala Leu Ile Phe Ile Thr Leu Leu Phe 180 195 200 205 181 Ser Val Leu Lys Trp Ile Arg Lys Lys Phe Pro His Ile Phe Lys Gln 182 210 215 220 280 183 Pro Phe Lys Lys Thr Thr Gly Ala Ala Gln Glu Glu Asp Ala Cys Ser 184 225 230 235 240 185 Cys Arg Cys Pro Gln Glu Glu Glu Gly Gly Gly Gly Gly Tyr Glu Leu			Glv	Glv	Pro	Glv		His	Ser	Leu	Gln		Leu	Thr	Leu	Phe		Ala	
180 195 200 205 181 Ser Val Leu Lys Trp Ile Arg Lys Lys Phe Pro His Ile Phe Lys Gln 182 210 215 220 183 Pro Phe Lys Lys Thr Thr Gly Ala Ala Gln Glu Glu Glu Asp Ala Cys Ser 184 225 230 235 240 185 Cys Arg Cys Pro Gln Glu Glu Glu Glu Gly Gly Gly Gly Gly Tyr Glu Leu			2	1		_	2												
180 195 200 205 181 Ser Val Leu Lys Trp Ile Arg Lys Lys Phe Pro His Ile Phe Lys Gln 182 210 215 220 183 Pro Phe Lys Lys Thr Thr Gly Ala Ala Gln Glu Glu Glu Asp Ala Cys Ser 184 225 230 235 240 185 Cys Arg Cys Pro Gln Glu Glu Glu Glu Gly Gly Gly Gly Gly Tyr Glu Leu	179		Leu	Thr	Ser	Ala	Leu	Leu	Leu	Ala	Leu	Ile	Phe	Ile	Thr	Leu	Leu	Phe	
182 210 215 220 183 Pro Phe Lys Lys Thr Thr Gly Ala Ala Gln Glu Glu Asp Ala Cys Ser 184 225 230 235 240 185 Cys Arg Cys Pro Gln Glu Glu Glu Glu Gly Gly Gly Gly Gly Tyr Glu Leu	180																		
Pro Phe Lys Lys Thr Thr Gly Ala Ala Gln Glu Glu Asp Ala Cys Ser 230 235 240 Cys Arg Cys Pro Gln Glu Glu Gly Gly Gly Gly Gly Tyr Glu Leu	181		Ser	Val	Leu	Lys	Trp	Ile	Arg	Lys	Lys	Phe	Pro	His	Ile	Phe	Lys	Gln	
184 225 230 235 240 185 Cys Arg Cys Pro Gln Glu Glu Glu Gly Gly Gly Gly Tyr Glu Leu	182			210		-	-		215	_	_			220			-		
184 225 230 235 240 185 Cys Arg Cys Pro Gln Glu Glu Glu Gly Gly Gly Gly Tyr Glu Leu	183		Pro	Phe	Lys	Lys	Thr	Thr	Gly	Ala	Ala	Gln	Glu	Glu	Asp	Ala	Cys	Ser	
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186 245 250 255	185		Cys	Arg	Cys	Pro	Gln	Glu	Glu	Glu	Gly	Gly	Gly	Gly	Gly	Tyr	Glu	Leu	
213 230 233	186						245					250					255		

VERIFICATION SUMMARY PATENT APPLICATION US/08/955,572A

DATE: 11/05/1998 TIME: 16:17:59

Input Set: H955572A.RAW

Line ? Error/Warning Original Text agacaaaggg ttggttccat aagaactgga gttatgga

130 W "N" or "Xaa" used: Feature required

Raw Sequence Listing Error Summary

		ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER:
7	ATTN	NEW RULES CASES:	PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
1		Wrapped Nucleics	The number/text at the end of each line "wrapped" down to the next line.
			This may occur if your file was retrieved in a word processor after creating it.
			Please adjust your right margin to .3, as this will prevent "wrapping".
2		Wrapped Amines	The amino acid number/text at the end of each line "wrapped " down to the next line.
			This may occur if your file was retrieved in a word processor after creating it.
			Please adjust your right margin to .3, as this will prevent "wrapping".
3		Incorrect Line Length	The rules require that a line not exceed 72 characters in length. This includes spaces.
J		mooned Line Congin	All text must be visible on page.
			The second but the use of the
4			. The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs
		Numbering	between the numbering. It is recommended to delete any tabs and uses spacing between the numbers.
5		Non-ASCII	This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
			Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
6		Variable Length	Sequence(s) contain n's or Xaa's which represented more than one residue.
•		tamatic congui	As per the rules, each n or Xaa can only represent a single residue.
			Please present the maximum number of each residue having variable length and
			indicate in the (ix) features section that some may be missing.
7		Wrong Designation	Sequence(s) contain amino acid or nucleic acid designators which are not standard
′		vvrong Designation	representations as per the Sequence Rules (Please refer to paragraph 1.822)
			representations as per the Sequence Rules (Please Telefito paragraphi 1.022)
8		Skipped Sequences	Sequence(s) missing. If intentional, please use the following format for each skipped sequence:
		(OLD RULES)	(2) INFORMATION FOR SEQ ID NO:X:
			(I) SEQUENCE CHARACTERISTICS: (Do not insert any headings under "SEQUENCE CHARACTERISTICS"
			(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
			This sequence is intentionally skipped
			Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
9		Skipped Sequences	Sequence(s) missing. If intentional, please use the following format for each skipped sequence.
- •		(NEW RULES)	<210> sequence id number
		(<400> sequence id number
)		000
••		_ Use of N's or Xaa's	Use of N's and/or Xaa's have been detected in the Sequence Listing.
10 -		_	
		(NEW RULES)	Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
11_		-	Sequence(s) are missing this mandatory field or its response.
	((NEW RULES)	
12 _	(Jse of <220>Feature	Sequence(s) are missing the <220>Feature and associated headings.
•	(Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
		•	(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32)
			(Sec. 1.823 of new Sequence Rules)
	-		
13 _	<u> </u>		File submitted was in the alphabetical heading format of the Old Sequence Rules. This is invalid since the
			"Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Disclosures"
			Federal Register Notice, Vol. 63, No. 104, June 1, 1998, p. 29620

applies to applications filed on or after July 1, 1998.

AKS-Biotechnology Systems Branch- 7/10/98